

144  
"Made available under NASA sponsorship  
in the interest of early and wide dis-  
semination of Earth Resources Survey  
Program information and  
for any use made thereof."

E72-10240  
CR-129117

DETERMINE THE UTILITY OF ERTS-1 IMAGERY IN THE PREPARATION OF  
HYDROLOGIC ATLASES OF ARID LAND WATERSHEDS

Lynn M. Shown  
U.S. Geological Survey  
Lakewood, Colorado 80225

1 November 1972

Type I Progress Report for Period 1 September 1972 - 31 October 1972

(E72-10240) DETERMINE THE UTILITY OF ERTS-1 IMAGERY IN THE PREPARATION OF HYDROLOGIC ATLASES OF ARID LAND WATERSHEDS Progress L.M. Shown (Geological Survey, Lakewood, Colo.) 1 Nov. 1972 2 p CSCL 08H G3/13 00240	N73-12340  Unclas
--	-------------------------

Prepared for:

Goddard Space Flight Center  
Greenbelt, Maryland 20771

Publication authorized by the Director, U.S. Geological Survey

Reproduced by  
NATIONAL TECHNICAL  
INFORMATION SERVICE  
U.S. Department of Commerce  
Springfield, VA 22151

Type I Progress Report  
ERTS-1

- a. Title: Determine the Utility of ERTS-1 Imagery in the Preparation of Hydrologic Atlases of Arid Land Watersheds

ERTS-1 Proposal No.: 234

- b. GSFC ID No. of P.I.: IN 397

c. Problems impeding progress of the investigation: Obligations to other activities and field checking of imagery have prevented more than a cursory analysis of the imagery received.

d. Accomplishments during this reporting period and plans for next period: Excellent quality high-altitude (U-2) color-IR photography of the Wind River, Wyoming and Saleratus and Brown's Washes, Utah test sites was received from NASA's Ames Research Center. ERTS-1 imagery was also received for the Montana, New Mexico, and Utah test sites, but none was received for the Wyoming site. A reconnaissance of the Utah test site was completed. Vegetation maps and ground cover data were obtained from the Bureau of Land Management for the Utah test site.

Vegetation types and drainage channel networks will be traced at 2 or 3 scales from the high-altitude photography using a stereo plotter. Vegetation and drainage features will be traced from projections of the ERTS-1 imagery. Some exploratory analyses of the ERTS-1 multi-spectral imagery will be done using a color-additive viewer.

e-k. Not applicable.

